

# 97 Routing Protocol Defaults

	<b>RIPv2</b>	<b>OSPF</b>	<b>EIGRP</b>	<b>OSPFv3</b>	<b>EIGRPv6</b>
Admin Distance	120	110	90	110	90
Hello Address	224.0.0.9	224.0.0.5	224.0.0.10	FF02::5	FF02::A
Updates Address	224.0.0.9 (same)	224.0.0.6	224.0.0.10 (same)	FF02::6	FF02::A (same)
ACL Protocol & Port	udp 520	ospf (no port)	eigrp (no port)		
Process or AS number must match across routers		No	Yes	No	Yes
Network Statement Mask	None; taken from interface?	Wildcard	Wildcard; IOS fixes accidental netmask.		
Uses Split Horizon	Yes	No	Yes	No	Yes
Load Balancing	Equal-Cost	Equal-Cost	Variance ≤ 128	Equal-Cost	Variance ≤ 128
<b>TIMINGS</b>	<b>RIPv2</b>	<b>OSPF</b>	<b>EIGRP</b>	<b>OSPFv3</b>	<b>EIGRPv6</b>
Hello Interval	30 Seconds	10 Seconds	5 Secs. / 60 for Serial (slow NBMA ≤ T1)		
Dead Timer (Hold Interval)	180 Seconds	4x Hello	3x Hello		
Hold-Down	180 Seconds				
Remove Route	240 Seconds	= Dead Timer	= Dead Timer		
Resend Topology	30 secs. (every hello)	30 minutes	Changes Only		
Hello Intervals Must match btwn routers?			No		

<b>METRICS</b>	<b>RIPv2</b>	<b>OSPF</b>	<b>EIGRP</b>	<b>OSPFv3</b>	<b>EIGRPv6</b>
Metric Hopcount	X	—	—	—	—
Metric Bandwidth	—	X	X	X	X
Metric Delay	—	—	X	—	X
+ Optional Metrics	—	—	X	—	X
Maximum Valid	15	$2^{24} - 2$	$2^{32} - 2$		
Route Poison $\infty$	16	$2^{24} - 1$	$2^{32} - 1$		
Max Interface Cost	—	$65,535 (=2^{16} - 1)$			

<b>BGP Message Dest. Address</b>	<b>Protocol</b>	<b>Port</b>
Unicast	TCP	179

<b>Other Admin Distances</b>	
Connected	0
Static Route	1
Unknown / Not believed	255

